

ABSTRACT OF THE DISCLOSURE

An electromagnetic suppressor is made of a thin film magnetic substance for suppressing a high frequency noise in a small-sized electronic apparatus. The magnetic substance has the maximum value of complex permeability in a quasi-microwave range and is of a magnetic composition comprising M, X, and Y, where M is a metallic magnetic material consisting of Fe, Co, and/or Ni, X is an element or elements other than M and Y, and Y is F, N, and/or O. The M-X-Y magnetic composition has a concentration of M in the composition so that said M-X-Y magnetic composition has a saturation magnetization of 35-80% of that which a bulk magnetic material consisting of M alone has. The magnetic composition has the maximum μ''_{max} of complex permeability μ'' in a frequency range of 0.1-10 gigahertz (GHz).